First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20060265234 A1

L1: Entry 1 of 4

File: PGPB

Nov 23, 2006

May 4, 2006

PGPUB-DOCUMENT-NUMBER: 20060265234

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060265234 A1

TITLE: Mission-specific vehicle capacity constraints in transportation planning

PUBLICATION-DATE: November 23, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Peterkofsky; Roy I. San Francisco CA US Budaraju; Hema Fremont CA US Yang; Mei CA Albany US Sun; Rongming Hayward CA US

US-CL-CURRENT: 705/1

Full	Titl∈	: Citation From	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawl De
	2.	Document II): US 20	060095175	A1		•	A CONTRACTOR OF THE CONTRACTOR	. National Designation		

File: PGPB

PGPUB-DOCUMENT-NUMBER: 20060095175

PGPUB-FILING-TYPE:

L1: Entry 2 of 4

DOCUMENT-IDENTIFIER: US 20060095175 A1

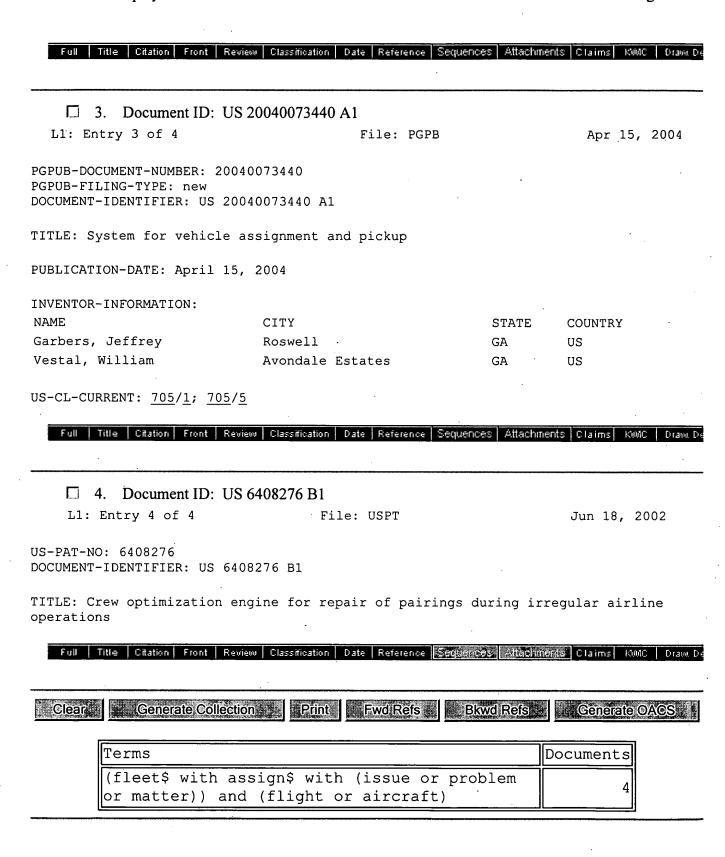
TITLE: Method, system, and apparatus for monitoring vehicle operation

PUBLICATION-DATE: May 4, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY deWaal; Thomas Calgary CA Heinrichs; Arthur Douglas Calgary CA

US-CL-CURRENT: 701/33; 340/438, 701/29, 701/35



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Previous Page Next Page Go to Doc#

First Hit Clear Concrete Collection Pitht Fwd Rats Etwa Rats

Cancrete OACS

Search Results - Record(s) 1 through 10 of 26 returned.

☐ 1. Document ID: US 20030167109 A1

L13: Entry 1 of 26

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030167109

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030167109 A1

TITLE: Methods and systems for routing mobile vehicles

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Clarke, Michael D. D.

Irving

ΤX

US

Smith, Barry C.

Flower Mound

TX

US

US-CL-CURRENT: <u>701/3</u>; <u>701/202</u>

	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMAC	Draw, De
•													

☐ 2. Document ID: US 7151995 B2

L13: Entry 2 of 26

File: USPT

Dec 19, 2006

US-PAT-NO: 7151995

DOCUMENT-IDENTIFIER: US 7151995 B2

TITLE: Method for the prediction of air traffic events, especially for assistance

in decision-making for airlines and airports

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040039518 A1

February 26, 2004

		· · · · · · · · · · · · · · · · · · ·										
Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
								•				

☐ 3. Document ID: US 7120537 B2

L13: Entry 3 of 26

File: USPT

Oct 10, 2006

Record List Display

US-PAT-NO: 7120537

DOCUMENT-IDENTIFIER: US 7120537 B2

TITLE: System and method for characterizing traffic behavior at an airport

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050085992 A1

April 21, 2005

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KNMC Drawn Dec.

4. Document ID: US 7065443 B2
L13: Entry 4 of 26 File: USPT Jun 20, 2006

US-PAT-NO: 7065443

DOCUMENT-IDENTIFIER: US 7065443 B2

TITLE: System and method for estimating aircraft flight delay

PRIOR-PUBLICATION:
DOC-ID DATE

Full Title Citation Front Review Classification Date Reference <mark>Sequences Attachments</mark> Claims KMC Draw. De

October 16, 2003

☐ 5. Document ID: US 7006903 B2

L13: Entry 5 of 26

File: USPT

Feb 28, 2006

US-PAT-NO: 7006903

US 20030195693 A1

DOCUMENT-IDENTIFIER: US 7006903 B2

** See image for Certificate of Correction **

TITLE: Method and system for $\underline{\text{routing}}$ mobile vehicles and $\underline{\text{scheduling}}$ maintenance for those vehicles related application

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030167110 A1

September 4, 2003

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KWIC Draw De

☐ 6. Document ID: US 6912461 B2

L13: Entry 6 of 26

File: USPT

Jun 28, 2005

Record List Display Page 3 of 4

US-PAT-NO: 6912461

DOCUMENT-IDENTIFIER: US 6912461 B2

TITLE: Multiple approach time domain spacing aid display system and related

techniques

Full | Title | Citation | Front | Review | Classification | Date | Reference | Seguences | Attachments | Claims | KWIC | Draw. Do

☐ 7. Document ID: US 6789011 B2

L13: Entry 7 of 26

File: USPT

Sep 7, 2004

US-PAT-NO: 6789011

DOCUMENT-IDENTIFIER: US 6789011 B2

TITLE: Method and system for allocating aircraft arrival/departure slot times

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Affachments | Claims | KMIC | Draw De

☐ 8. Document ID: US 6606553 B2

L13: Entry 8 of 26

File: USPT

Aug 12, 2003

US-PAT-NO: 6606553

DOCUMENT-IDENTIFIER: US 6606553 B2

TITLE: Traffic flow management method and system for weather problem resolution

Full | Title | Citation | Front | Review | Classification | Date | Reference | **Sequences | Attachments |** Claims | KWIC | Draw, De

☐ 9. Document ID: US 6584400 B2

L13: Entry 9 of 26

File: USPT

Jun 24, 2003

US-PAT-NO: 6584400

DOCUMENT-IDENTIFIER: US 6584400 B2

TITLE: Schedule activated management system for optimizing aircraft arrivals at

congested airports

Full Title Citation Front Review Classification Date Reference Sequences Altachments Claims KMC Draw De

☐ 10. Document ID: US 6580998 B2

L13: Entry 10 of 26

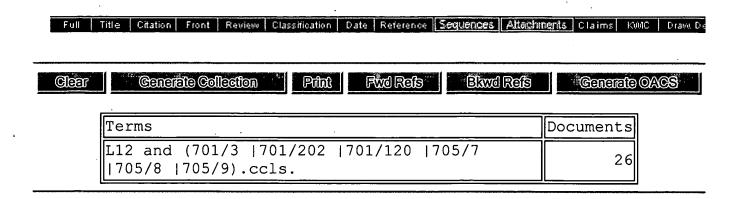
File: USPT

Jun 17, 2003

US-PAT-NO: 6580998

DOCUMENT-IDENTIFIER: US 6580998 B2

TITLE: System and method for estimating aircraft flight delay



Display Format: - Change Format

Previous Page Next Page Go to Doc#

First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 11 through 20 of 26 returned.

☐ 11. Document ID: US 6415219 B1

L13: Entry 11 of 26

File: USPT

Jul 2, 2002

Jun 18, 2002

Nov 6, 2001

Aug 28, 2001

US-PAT-NO: 6415219

DOCUMENT-IDENTIFIER: US 6415219 B1

** See image for Certificate of Correction **

TITLE: Technique of real-time tracking and management of land-based vehicles of the airport

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

File: USPT

US-PAT-NO: 6408276

DOCUMENT-IDENTIFIER: US 6408276 B1

L13: Entry 12 of 26

TITLE: Crew optimization engine for repair of pairings during irregular airline operations

Full Title Citation Front Review Classification Date Reference Souliences Affectioned Claims RMC Draw. De

File: USPT

US-PAT-NO: 6314361

DOCUMENT-IDENTIFIER: US 6314361 B1

L13: Entry 13 of 26

L13: Entry 14 of 26

TITLE: Optimization engine for <u>flight assignment</u>, <u>scheduling and routing of</u> aircraft in response to irregular operations

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

File: USPT

US-PAT-NO: 6282487

DOCUMENT-IDENTIFIER: US 6282487 B1

TITLE: Runway reservation system

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 15. Document ID: US 6182005 B1 /

L13: Entry 15 of 26

File: USPT

Jan 30, 2001

US-PAT-NO: 6182005

DOCUMENT-IDENTIFIER: US 6182005 B1

TITLE: Airport guidance and safety system incorporating navigation and control

using GNSS compatible methods

Full Title Citation Front Review Classification Date Reference Sequences Altschmients Claims KNMC Draws De

☐ 16. Document ID: US 6122572 A

L13: Entry 16 of 26

File: USPT

Sep 19, 2000

US-PAT-NO: 6122572

DOCUMENT-IDENTIFIER: US 6122572 A

** See image for Certificate of Correction **

TITLE: Autonomous command and control unit for mobile platform

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMIC Draw De

☐ 17. Document ID: US 6076067 A

L13: Entry 17 of 26

File: USPT

Jun 13, 2000

US-PAT-NO: 6076067

DOCUMENT-IDENTIFIER: US 6076067 A

TITLE: System and method for incorporating origination and destination effects into

a vehicle assignment process

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw De

☐ 18. Document ID: US 6049754 A

L13: Entry 18 of 26

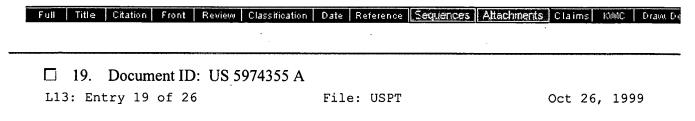
File: USPT

Apr 11, 2000

US-PAT-NO: 6049754

DOCUMENT-IDENTIFIER: US 6049754 A

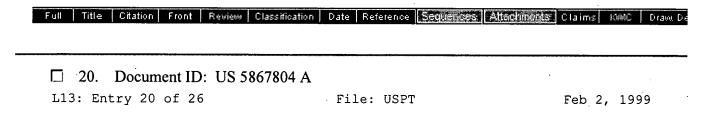
TITLE: Method for displaying vehicle arrival management information



US-PAT-NO: 5974355

DOCUMENT-IDENTIFIER: US 5974355 A

TITLE: Automatic time series pattern creating method



US-PAT-NO: 5867804

DOCUMENT-IDENTIFIER: US 5867804 A

|705/8 |705/9).ccls.

TITLE: Method and system for the control and management of a three dimensional space envelope

Full Title Citation Front Review Classification Date Reference Sequence Alfactments Claims KMC Draw De Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Terms Documents
L12 and (701/3 | 701/202 | 701/120 | 705/7 26

Display Format: - Change Format

<u>Previous Page</u> <u>Next Page</u> <u>Go to Doc#</u>

First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 21 through 26 of 26 returned.

☐ 21. Document ID: US 5740047 A

L13: Entry 21 of 26

File: USPT

Apr 14, 1998

US-PAT-NO: 5740047

DOCUMENT-IDENTIFIER: US 5740047 A

TITLE: GNSS based, seamless, multi-dimensional control and management system for

vehicles operating in a multi-dimensional environment

Full Title Citation Front Review Classification Date Reference Sequences Attachments: Claims KWC Draw De

☐ 22. Document ID: US 5732384 A

L13: Entry 22 of 26

File: USPT

Mar 24, 1998

US-PAT-NO: 5732384

DOCUMENT-IDENTIFIER: US 5732384 A

TITLE: Graphical user interface for air traffic control flight data management

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KNAC Draw. De

☐ 23. Document ID: US 5659475 A

L13: Entry 23 of 26

File: USPT

Aug 19, 1997

US-PAT-NO: 5659475

DOCUMENT-IDENTIFIER: US 5659475 A

TITLE: Electronic air traffic control system for use in airport towers

Full Title Citation Front Review Classification Date Reference Sequences Stachments Claims KMC Draw. Do

☐ 24. Document ID: US 5548515 A

L13: Entry 24 of 26

File: USPT

Aug 20, 1996

US-PAT-NO: 5548515

DOCUMENT-IDENTIFIER: US 5548515 A

** See image for Certificate of Correction **

TITLE: Method and system for airport control and management

Full | Title | Citation | Front | Review | Classification | Date | Reference | **Sequences | Attachments |** Claims | KMC | Draw, De

☐ 25. Document ID: US 5270921 A

L13: Entry 25 of 26

File: USPT

Dec 14, 1993

US-PAT-NO: 5270921

DOCUMENT-IDENTIFIER: US 5270921 A

** See image for Certificate of Correction **

TITLE: Virtual fare methods for a computerized airline seat inventory control

system

Full | Title | Citation | Front | Review | Classification | Date | Reference | **Sequences | Attechnicity** | Claims | KWIC | Draw, De

☐ 26. Document ID: US 5265023 A

L13: Entry 26 of 26

File: USPT

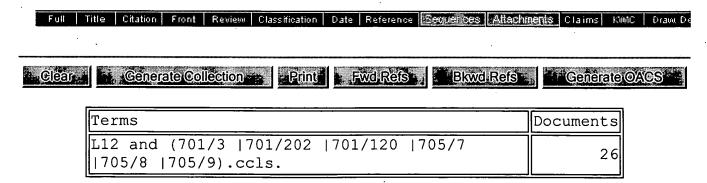
Nov 23, 1993

US-PAT-NO: 5265023

DOCUMENT-IDENTIFIER: US 5265023 A

** See image for Certificate of Correction **

TITLE: Method for issuing adaptive ground delays to air traffic



Display Format: - Change Format

<u>Previous Page</u> <u>Next Page</u> <u>Go to Doc#</u>

United States Patent: 6049754 Page 1 of 2

United States Patent Beaton, et al.

6,049,754 April 11, 2000

Method for displaying vehicle arrival management information

Abstract

A method for displaying vehicle arrival management information is provided by display (200). Display (200) includes an arrival slot display area (222) which is bounded by a relative time scale (214) defining a Y axis and an actual time scale (216) defining an X axis. A multiplicity of symbols (226) representing arrival slots extends from the origin of the display. When used in an aircraft arrival management application, symbols (228) represent aircraft in flight, and symbols (230) represent aircraft still on the ground and whose flight plan is proposed. Those symbols (228, 230) are located on the display at the appropriate estimated arrival time, assigned slot time coordinates corresponding with a respective arrival time slot represented by a respective arrival slot symbol (226). To further aid in controlling the arrival traffic, each of the in-flight aircraft symbols (228) for aircraft associated with the user includes an ETA envelope (244) associated with the in-flight aircraft symbol (228), the symbol (228) being located at coordinates which represent the estimated ETA and slot assignment of the aircraft. Aircraft which have been assigned to an arrival slot, but which have not yet taken off, are indicated by a symbol (230) which is located at coordinates representing the estimated ETA and slot assignment for that flight.

Inventors: Beaton; Emily K. (Gaithersburg, MD), Fisher; Vick G.

(Arlington, VA), Miller; Shane L. (Reston, VA), Nardelli, III; Joseph A. (Herndon, VA), Simmons; Rodney A. (Fremont, CA)

Assignee: The Mitre Corporation (McLean, VA)

Appl. No.: 09/050,471

Filed: March 31, 1998

Current International Class:

Current U.S. Class:

701/204; 340/990; 340/995.26; 701/120; 701/121; 701/122; 701/123; 701/200

G01G 21/00 (200(0101) G09G

G01C 21/00 (20060101); G08G

Field of Search:

1/123 (20060101); G08G 5/00 (20060101) 340/974,973 395/129,142 701/120,204 364/439-444,461

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	U.S. Patent Documents						
<u>5257347</u>	October 1993	Busbridge et al.					
<u>5265023</u>	November 1993	Sokkappa					
<u>5420582</u>	May 1995	Kubbat et al.					
<u>5659475</u>	August 1997	Brown					
<u>5677841</u>	October 1997	Shiomi et al.					
<u>5742508</u>	April 1998	Kasui et al.					
5941929	August 1999	Shiomi et al.					

Primary Examiner: Cuchlinski, Jr.; William A.

Assistant Examiner: Mancho; Ronnie

United States Patent: 6408276 Page 1 of 2

United States Patent Yu, et al.

6,408,276 June 18, 2002

Crew optimization engine for repair of pairings during irregular airline operations

Abstract

An automated real time crew optimization engine for repairing crew problems including open flights, open pairings, and broken crews in airline operations, which generates multiple solutions in conformance with solution constraints by preprocessing the crew problems to generate potential solutions, and optimizing the potential solutions to provide optimized solutions. The preprocessing includes the use of self-connection methods, skipping-leg methods, and an extend-out-broken crew method. Potential solutions are generated by swap methods including a one-way swap method, a two-way swap method, and a three-way swap method. A depth-search-first algorithm and a shortest path algorithm are applied to the potential solutions to find optimal solutions.

Inventors: Yu; Gang (Austin, TX), Song; Gao (Austin, TX)

Assignee: CALEB Technologies Corp. (Austin, TX)

Appl. No.: 09/364,156

Filed: **July 30, 1999**

Current U.S. Class:

705/7; 701/202; 705/8; 705/9

Current International Class: G06Q 10/00 (20060101)

Field of Search: 705/7,8,9 703/6,7 701/202 340/825

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6253147 June 2001

Greenstein

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1072991 Jul., 2001 EP

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Anbil, Ranga et al. Column generation and the airline crew scheduling problem. Documenta Mathematica Extra Volume ICM, 1998, pp. 677-686.

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Mark Song, Guo Wei, and Gang Yu, "A Decision Support Framework For Crew Management During Airline Irregular Operations", Operations Research In The Airline Industry, pp. 259-286, Kluwer Academic Publishers (1998), United States..

United States Patent: 6314361 Page 1 of 5

United States Patent Yu, et al.

6,314,361 November 6, 2001

Optimization engine for flight assignment, scheduling and routing of aircraft in response to irregular operations

Abstract

An automated, real-time decision support system for reassigning, rescheduling, and rerouting aircraft in response to flight operation disruptions, in which sets of optimal solutions are provided through use of evaluation statistics to assist operations management in selecting the optimal solution best conforming to operational constraints and user requirements. Solutions are generated through the execution of unary operations, binary operations, three-way operations, and reverse binary operations on grounded aircraft routes, available aircraft routes, and phantom routes which implicitly cancelled flights. Solutions are evaluated for feasibility with respect to operations constraints and user requirements. Marginal value calculators are used to differentiate feasible solutions and identify optimal solutions. The marginal value calculators are dynamic, hierarchical calculators that permit use of multiple, prioritized, and weighted route and operation attributes in comparing solution values. Marginal value calculators are selected by means of a decision tree.

Inventors: Yu; Gang (Austin, TX), Arguello; Michael Francis (Austin, TX)

Assignee: CALEB Technologies Corp. (Austin, TX)

Appl. No.: 09/364,157

Filed: **July 30, 1999**

Current U.S. Class: 701/120; 701/117; 701/202; 703/13; 703/22;

705/5; 705/6; 718/100

Current International Class: G06Q 10/00 (20060101); G08G

5/00 (20060101)

Field of Search: 701/120,200,202 703/13,22 705/5,6,8 707/1

709/100

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<u>4845625</u>	July 1989	Stannard						
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<u>5253165</u>	October 1993	Leiseca et al.						
<u>5255184</u>	October 1993	Hornick et al.						
<u>5265023</u>	November 1993	Sokkappa						
<u>5270920</u>	December 1993	Pearse et al.						
<u>5270921</u>	December 1993	Hornick						
<u>5570283</u>	October 1996	Shoolery						
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<u>5805446</u>	September 1999	Hatakeyama						
<u>5897620</u>	April 1999	Walker						
<u>5913912</u>	June 1999	Nishimura						
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07435 8 0A1	No	v., 1996 EP						
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Michael F. Arguello, Jonathan F. Bard, and Gang Yu "A Grasp for

Aircraft Routing in Response to Groundings and Delays", Journal of Combinatorial Optimization 5, pp. 211-228 (1971), The Netherlands.

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United States Patent: 6314361

United States. No month. .

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Primary Examiner: Beaulieu; Yonel